

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: June 1, 2005, 23:31:40 ; Search time 43 Seconds  
(without alignments)  
611.081 Million cell updates/sec

Title: US-09-978-360A-437  
Perfect score: 1831  
Sequence: 1 MSGGRPSLCQFILLGTTSV.....PKKPCICROAIRVPLVNS 352

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/iaa/5A COMB.pep.\*  
2: /cgn2\_6/prodata/1/iaa/5B COMB.pep.\*  
3: /cgn2\_6/prodata/1/iaa/6A COMB.pep.\*  
4: /cgn2\_6/prodata/1/iaa/6B COMB.pep.\*  
5: /cgn2\_6/prodata/1/iaa/PCTUS COMB.pep.\*  
6: /cgn2\_6/prodata/1/iaa/backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	1831	100.0	352	4	US-09-599-360B-105
2	445	24.3	91	3	US-08-905-223-421
3	183	8.9	372	3	US-09-324-455-2
4	155.5	8.5	723	4	US-09-434-408-2
5	151	8.2	350	4	US-09-270-767-58582
6	151	8.2	559	4	US-09-270-767-43239
7	144.5	7.9	438	5	PCT-US95-05922A-2
8	144.5	7.9	618	3	US-08-569-749-2
9	144.5	7.9	618	3	US-09-069-023-29
10	144.5	7.9	618	4	US-09-689-366-2
11	144.5	7.9	618	5	PCT-US96-12860-2
12	138.5	7.6	618	2	US-08-511-485-8
13	138.5	7.6	618	3	US-09-212-971-8
14	138.5	7.6	618	3	US-08-800-929A-8
15	138.5	7.6	618	3	US-09-617-053A-8
16	138.5	7.6	618	4	US-09-201-936-8
17	138.5	7.6	618	4	US-09-011-356-8
18	138.5	7.6	618	4	US-09-672-717-223
19	138.5	7.6	618	4	US-09-201-932-8
20	137.5	7.5	604	2	US-08-511-485-6
21	137.5	7.5	604	3	US-09-212-971-6
22	137.5	7.5	604	3	US-08-800-929A-6
23	137.5	7.5	604	3	US-09-617-053A-6
24	137.5	7.5	604	4	US-09-201-936-6
25	137.5	7.5	604	4	US-09-011-356-6
26	137.5	7.5	604	4	US-09-672-717-221
27	137.5	7.5	604	4	US-09-201-932-6

28	136.5	7.5	602	4	US-09-201-936-40	Sequence 40, Appl
29	136.5	7.5	602	4	US-09-011-356-40	Sequence 40, Appl
30	136.5	7.5	602	4	US-09-672-717-227	Sequence 227, App
31	136.5	7.5	602	4	US-09-201-932-40	Sequence 40, Appl
32	132.5	7.2	612	3	US-08-569-749-14	Sequence 14, Appl
33	132.5	7.2	612	4	US-09-689-366-14	Sequence 14, Appl
34	132.5	7.2	612	5	PCT-US96-12860-14	Sequence 14, Appl
35	128.5	7.0	600	3	US-09-212-971-12	Sequence 12, Appl
36	128.5	7.0	600	3	US-08-800-929A-12	Sequence 12, Appl
37	128.5	7.0	600	3	US-09-617-053A-12	Sequence 12, Appl
38	128.5	7.0	612	3	US-09-212-971-14	Sequence 14, Appl
39	128.5	7.0	612	3	US-08-800-929A-14	Sequence 14, Appl
40	128.5	7.0	612	3	US-09-617-053A-14	Sequence 14, Appl
41	127.5	7.0	591	4	US-09-201-936-42	Sequence 42, Appl
42	127.5	7.0	591	4	US-09-011-356-42	Sequence 42, Appl
43	127.5	7.0	591	4	US-09-672-717-229	Sequence 229, App
44	127.5	7.0	591	4	US-09-201-932-42	Sequence 42, Appl
45	126.5	6.9	604	3	US-08-569-749-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1  
US-09-599-360B-105  
; Sequence 105, Application US/09599360B  
; Patent No. 6548633  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Bougueleret, L.  
; APPLICANT: Jobert, S.  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides  
; FILE REFERENCE: GENSET.050CP3  
; CURRENT APPLICATION NUMBER: US/09/599,360B  
; CURRENT FILING DATE: 2000-06-21  
; PRIOR APPLICATION NUMBER: 60/113,686  
; PRIOR FILING DATE: 1998-12-22  
; PRIOR APPLICATION NUMBER: 60/141,032  
; PRIOR FILING DATE: 1999-06-25  
; PRIOR APPLICATION NUMBER: 09/469,099  
; PRIOR FILING DATE: 1999-12-21  
; NUMBER OF SEQ ID NOS: 123  
; SOFTWARE: Patent.pm  
; SEQ ID NO 105  
; LENGTH: 352  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -23..-1  
US-09-599-360B-105

Query Match 100.0%; Score 1831; DB 4; Length 352;  
Best Local Similarity 100.0%; Pred. No. 2.2e-192;  
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MSGGRPSLCQFILLGTTSVVTAALYVYRQKARYSQELKGVHKGDLKSLSEAPG	60
Db	1	MSGGRPSLCQFILLGTTSVVTAALYVYRQKARYSQELKGVHKGDLKSLSEAPG	60
QY	61	KCVPAVIEGAVRSVKETLNSQFVENCCKGVIORLTQEHKVMVNRTHLWDCSKIHOR	120
Db	61	KCVPAVIEGAVRSVKETLNSQFVENCCKGVIORLTQEHKVMVNRTHLWDCSKIHOR	120
QY	121	TNTVPFDLPHEDGVDVAVRLKPLDSVDLGLTVEYKFPHPISQSTVDVIGHYISGERPK	180
Db	121	TNTVPFDLPHEDGVDVAVRLKPLDSVDLGLTVEYKFPHPISQSTVDVIGHYISGERPK	180
QY	181	GQETEEMLKVCATLTGVELVLDNNSVRLQPPKQMGVYLLSQDFDSLQRCQESSVRLW	240
Db	181	GQETEEMLKVCATLTGVELVLDNNSVRLQPPKQMGVYLLSQDFDSLQRCQESSVRLW	240
QY	241	KVLALVFGFATCATLFFILRKQYLRQLRKLKQMEFQEHQAQLLSRAKPEDRESLKS	300

Db 241 KVLALVFGFATCATLFFILRKQYLQQRERLRLKQMOEFQHEAQLLSRAKPEDRESLKS 300  
QY 301 ACVVCLSSFKSCVFLGCHVCSCTECYRALPEPKKCPICRQAITRVPLVNS 352  
Db 301 ACVVCLSSFKSCVFLGCHVCSCTECYRALPEPKKCPICRQAITRVPLVNS 352

RESULT 2  
US-08-905-223-421  
; Sequence 421, Application US/08905223  
; Patent No. 622029  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Jean-Baptiste D.  
; APPLICANT: Duclert, Americ  
; APPLICANT: Lacroix, Bruno  
; TITLE OF INVENTION: 5' ESTS FOR SECRETED PROTEINS  
; NUMBER OF SEQUENCES: 503  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Knobbe, Martens, Olson & Bear  
; STREET: 501 West Broadway  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92101-3505  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy Disk  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: Win95  
; SOFTWARE: Word  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/905,223  
; FILING DATE:  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Israelsen, Ned A.  
; REGISTRATION NUMBER: 29,655  
; REFERENCE/DOCKET NUMBER:  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 235-8550  
; TELEFAX: (619) 235-0176  
; INFORMATION FOR SEQ ID NO: 421:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 91 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: LINEAR  
; MOLECULE TYPE: PROTEIN  
; ORIGINAL SOURCE:  
; ORGANISM: Homo Sapiens  
; TISSUE TYPE: Brain  
; FEATURE:  
; NAME/KEY: sig peptide  
; LOCATION: -23--1  
; IDENTIFICATION METHOD: Von Heijne matrix  
; OTHER INFORMATION: score 4.4  
; OTHER INFORMATION: seq QFILLGTTVVVTA/AL  
US-08-905-223-421

Query Match 24.3%; Score 445; DB 3; Length 91;  
Best Local Similarity 98.9%; Pred. No. 5.7e-41;  
Matches 89; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MESGGRPSLCQFILLGTTVVVTAALYSVYRQKARVSQELKGAKVHLGEDLKSILSEAPG 60  
Db 1 MESGGRPSLCQFILLGTTVVVTAALYSVYRQKARVSQELKGAKVHLGEDLKSILSEAPG 60  
QY 61 KCVPYAVIEGAVRSVKETLNSQFVENCXGV 90  
Db 61 KCVPYAVIEGAVRSVKETLNSQFVENCXGV 90

RESULT 3  
US-09-324-455-2

; Sequence 2, Application US/09324455  
; Patent No. 6326481  
; GENERAL INFORMATION:  
; APPLICANT: Yowe, David  
; TITLE OF INVENTION: NOVEL MOLECULES OF THE AIP-RELATED  
; TITLE OF INVENTION: PROTEIN FAMILY AND USES THEREOF  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FastSeq for Windows Version 2.0b  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/324,455  
; FILING DATE: 02-JUN-1999  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/087,761  
; FILING DATE: 02-JUN-1998  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Meiklejohn, Ph.D., Anita L.  
; REGISTRATION NUMBER: 35,283  
; REFERENCE/DOCKET NUMBER: 07334/069001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/542-5070  
; TELEFAX: 617/542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 372 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-324-455-2

Query Match 8.9%; Score 163; DB 3; Length 372;  
Best Local Similarity 30.1%; Pred. No. 5.6e-09;  
Matches 40; Conservative 29; Mismatches 48; Indels 16; Gaps 5;  
QY 222 SSQDFDSLQQRSSVR-LWKVLALVF-GPATCATLFFILRKQYLQQRERLRLKQMOEF 279  
Db 254 SLSDLSLDDVEGMSVRQLKEILARNFVNYSGCCKWELVEK-----VNRLYKEN 303  
QY 280 QEHEAQLLSRAKPEDRESLKSACVCLSPKSCVFLGCHVCSCTECYRALPEPKKCPIC 339  
Db 304 EENQKSYGERLQLODEED-DSLRCRMDAVIDCVLLGCHMVVTCCKGRMSE---CPIC 359  
QY 340 RQAITRVPLVNS 352  
Db 360 RQIVVRAVHVFKS 372

RESULT 4  
US-09-434-408-2  
; Sequence 2, Application US/09434408  
; Patent No. 6440697  
; GENERAL INFORMATION:  
; APPLICANT: Venezia, Domenick  
; APPLICANT: Grossmann, Angelika  
; TITLE OF INVENTION: RING FINGER PROTEIN ZAPO3  
; FILE REFERENCE: 98-41  
; CURRENT APPLICATION NUMBER: US/09/434,408  
; CURRENT FILING DATE: 1999-11-04  
; EARLIER APPLICATION NUMBER: US 60/108,258  
; EARLIER FILING DATE: 1998-11-12  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0

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; SEQ ID NO 2
; LENGTH: 723
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-434-408-2

Query Match
Best Local Similarity 8.5%; Score 155.5; DB 4; Length 723;
Matches 37; Conservative 16; Mismatches 38; Indels 17; Gaps 3;

QY 259 LRKQYLOR-OERLRKQMEEF-----QEHAQLLSRAKPEDRESLSKACVV 304
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 618 LQHEILRRVQELLDAAIQPELKPMGEVVTPTAPQEPESVRPSAPPAELVQASECVV 677
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 305 CLSSPKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 678 CLBERAQMIFNGHVCCQCCQCP-----RTPLCRQDIAQLRIYHS 722
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 5
US-09-270-767-58582
; Sequence 58582, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 58582
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-58582

Query Match
Best Local Similarity 8.2%; Score 151; DB 4; Length 350;
Matches 34; Conservative 18; Mismatches 34; Indels 22; Gaps 3;

QY 264 LQQRERLRKQMEEFQEH-----EAQLLSRAK-----PEDRESLSKACVV 304
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 102 LKDLGLTVKQLKEVLMHLRVYDKGCCCKQELLDRVSLWKTMRBCPAVEKLATDELCKI 161
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 305 CLSSPKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 162 CMDAPIECVFLGCHMATCTSCGKVLNE---CPICRQIVRVVRFRA 206
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 6
US-09-270-767-43239
; Sequence 43239, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 43239
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-43239

Query Match
Best Local Similarity 8.2%; Score 151; DB 4; Length 559;
```

```
Best Local Similarity 31.5%; Pred. No. 2.3e-07;
Matches 34; Conservative 18; Mismatches 34; Indels 22; Gaps 3;

QY 264 LQQRERLRKQMEEFQEH-----EAQLLSRAK-----PEDRESLSKACVV 304
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 311 LKDLGLTVKQLKEVLMHLRVYDKGCCCKQELLDRVSLWKTMRBCPAVEKLATDELCKI 370
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 305 CLSSPKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 371 CMDAPIECVFLGCHMATCTSCGKVLNE---CPICRQIVRVVRFRA 415
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 7
PCT-US95-05922A-2
; Sequence 2, Application PC/TUS9505922A
; GENERAL INFORMATION:
; APPLICANT: HE, ET AL.
; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05922A
; FILING DATE: 11 MAY 1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-292
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 438 AMINO ACIDS
; TYPE: AMINO ACID
; STRANDEDNESS:
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PROTEIN
PCT-US95-05922A-2

Query Match
Best Local Similarity 7.9%; Score 144.5; DB 5; Length 438;
Matches 68; Conservative 50; Mismatches 118; Indels 75; Gaps 13;

QY 82 QFVENCCKVIOQLTIQEHKVMNRTTHLWDCSKIIHQTNTVTPDLVPHEDGVDAVVRV 141
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 163 EFVDEIQGRYPHLL--EQLLSTSDTTGEENADPPIIH-----FGGESSEDAVVM 211
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 142 LKPL--DSVDLGL-----ETVYKFKHPSIQSF---TDVIGHYISGERPKGIQE-----TE 186
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 212 NTPVVKSALEMGFNRLVKQTVQSKILTTGENYKTVNDIVSALLNAEDEKREEKEKQAE 271
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQGVYVLSQD-PD 227
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 272 EMASDDLSLRKNRMAFPQQTCTVLPILDNLKANVINKQEHDIKQTKIPLQARELID 331
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 228 SLLQROESSVRLWKVLAVFGFATCATLFFILRKQYLQRE-----RLRLKMQMEEFQE 281
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

Db 332 TILVKGNAANIFKNCLEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEEQRLRQBE--- 388  
QY 282 HEAQLLSRAKPEDRESLSKSCVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQ 341  
Db 389 -----RTCKVCMDKEVSVFIPCGHLVVCQEC---APSLRKCPICRG 427  
QY 342 AITRVIPLVNS 352  
Db 428 IIKGTVRTFLS 438

RESULT 8  
US-08-569-749-2  
; Sequence 2, Application US/08569749  
; Patent No. 6187557  
; GENERAL INFORMATION:  
; APPLICANT: Rothe, Mike  
; APPLICANT: Goedel, David V  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/569,749  
; FILING DATE:  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brezner, David J.  
; REGISTRATION NUMBER: 24,774  
; REFERENCE/DOCKET NUMBER: A-62464/DJB  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415)781-1989  
; TELEFAX: (415)398-3249  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 618 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-569-749-2

Query Match 7.9%; Score 144.5; DB 3; Length 618;  
Best Local Similarity 21.9%; Pred. No. 1.4e-06;  
Matches 68; Conservative 50; Mismatches 118; Indels 75; Gaps 13;

QY 82 QFVENCKGVIQRLTLQEHKQVWNRTHLWNCDSKIIHQRTNTVPFDLVPDHEDGVAVRV 141  
Db 343 EFVDEIQGRYPHLL--EQLLSTSDTTGEEADPPIIH-----FGPGESSSEDAVMM 391  
QY 142 LKPL--DSVDLGL-----ETVVEKHPHSIQSF---TDVIGHVISGERPKGIOE---TE 186  
Db 392 NTPVKSALGEMFNRLDVKTQVSKILTTGENTYNDIVSALLNAEDEKREEKEKQAE 451  
QY 187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQGMYYLSSQD-FD 227  
Db 452 EMASDDLRLKRNMAFQQLTCVLPILDNLKANVINKQEHDIKQKQIPLQARELID 511  
QY 228 SLQRQESSVRLWKVLALVFGPATCATLFLIRKQYLQOE-----RLRKQMQBEFQE 281  
Db 512 TILVKGNAANIFKNCLEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEEQRLRQBE--- 568  
QY 282 HEAQLLSRAKPEDRESLSKSCVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQ 341  
Db 569 -----RTCKVCMDKEVSVFIPCGHLVVCQEC---APSLRKCPICRG 607

QY 342 AITRVIPLVNS 352  
Db 608 IIKGTVRTFLS 618

RESULT 10  
US-09-689-366-2  
; Sequence 2, Application US/09689366  
; Patent No. 6821736  
; GENERAL INFORMATION:  
; APPLICANT: Rothe, Mike  
; APPLICANT: Goedel, David V  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA

Db 569 -----RTCKVCMDKEVSVFIPCGHLVVCQEC---APSLRKCPICRG 607  
QY 342 AITRVIPLVNS 352  
Db 608 IIKGTVRTFLS 618

RESULT 9  
US-09-069-023-29  
; Sequence 29, Application US/09069023A  
; Patent No. 6348573  
; GENERAL INFORMATION:  
; APPLICANT: Nunez, Gabriel  
; APPLICANT: Inohara, Naohiro  
; APPLICANT: Koseki, Takeyoshi  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING APOPTOSIS  
; TITLE OF INVENTION: SIGNALING PATHWAY INHIBITORS AND ACTIVATORS  
; FILE REFERENCE: UM-03333  
; CURRENT APPLICATION NUMBER: US/09/069,023A  
; CURRENT FILING DATE: 1998-04-27  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-069-023-29

Query Match 7.9%; Score 144.5; DB 3; Length 618;  
Best Local Similarity 21.9%; Pred. No. 1.4e-06;  
Matches 68; Conservative 50; Mismatches 118; Indels 75; Gaps 13;

QY 82 QFVENCKGVIQRLTLQEHKQVWNRTHLWNCDSKIIHQRTNTVPFDLVPDHEDGVAVRV 141  
Db 343 EFVDEIQGRYPHLL--EQLLSTSDTTGEEADPPIIH-----FGPGESSSEDAVMM 391  
QY 142 LKPL--DSVDLGL-----ETVVEKHPHSIQSF---TDVIGHVISGERPKGIOE---TE 186  
Db 392 NTPVKSALGEMFNRLDVKTQVSKILTTGENTYNDIVSALLNAEDEKREEKEKQAE 451  
QY 187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQGMYYLSSQD-FD 227  
Db 452 EMASDDLRLKRNMAFQQLTCVLPILDNLKANVINKQEHDIKQKQIPLQARELID 511  
QY 228 SLQRQESSVRLWKVLALVFGPATCATLFLIRKQYLQOE-----RLRKQMQBEFQE 281  
Db 512 TILVKGNAANIFKNCLEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEEQRLRQBE--- 568  
QY 282 HEAQLLSRAKPEDRESLSKSCVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQ 341  
Db 569 -----RTCKVCMDKEVSVFIPCGHLVVCQEC---APSLRKCPICRG 607

QY 342 AITRVIPLVNS 352  
Db 608 IIKGTVRTFLS 618

RESULT 10  
US-09-689-366-2  
; Sequence 2, Application US/09689366  
; Patent No. 6821736  
; GENERAL INFORMATION:  
; APPLICANT: Rothe, Mike  
; APPLICANT: Goedel, David V  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA



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; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/511,485
; FILING DATE: 04-AUG-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,152
; REFERENCE/DOCKET NUMBER: 07540/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: both
; MOLECULE TYPE: protein
; US-08-511-485-8

Query Match 7.6%; Score 138.5; DB 2; Length 618;
Best Local Similarity 21.5%; Pred. No. 6.4e-06;
Matches 67; Conservative 50; Mismatches 119; Indels 75; Gaps 13;

QY 82 QFVENCKVQIQLTLOEHKMWNRTHLWDCSKLIHQRTNTVPFLVPHEDGVDVAVRV 141
Db 343 EFVDEIQGRYPHLL--EQLLSTDTTTEENADPPIIH-----FGPGESESDAVMM 391
QY 142 LKPL--DSVDLGL-----ETVVEKHPHSIQSF---TDVIGHYISGERPKGIOE---TE 186
Db 392 NTPVKSALFMGNRDLVKQTVLSKLTGTGENTYKTVNDIVSALLNAEDEKREKEKQAE 451
QY 187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQGMQYVLSQD--FD 227
Db 452 EMASDDLRLKRNRMALFQQLTCVLPILDNLKANVINKQEHDIIRKQTIPLQARELID 511
QY 228 SLLQROESSVRLWKVLALVFGFATCATLFFILRKQYLQRE-----RLRLKMQQEEFQE 281
Db 512 TIWVGNAANAIFKNCLEKIDSTLYKNLFDVKNMKYIPTEDVSGLSLEEQRLRLQBE--- 568
QY 282 HEAQLLSRAKPEDRESLSKACVCLSSFKSCVLECGHVCSCTECYRALPEPKKCPICRQ 341
Db 569 -----RTCKVCMDEKSVVFPICGHLVVQCEC---APSLRKCPCICRG 607
QY 342 AITRVIPLVNS 352
Db 608 IIKGTVRTFLS 618

RESULT 13
US-09-212-971-8
; Sequence 8, Application US/09212971B
; Patent No. 6107041
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tsang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; FILE REFERENCE: 07891/009002
; CURRENT APPLICATION NUMBER: US/09/212,971B

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; CURRENT FILING DATE: 1998-12-16
; EARLIER APPLICATION NUMBER: 60/017,354
; EARLIER FILING DATE: 1996-04-26
; EARLIER APPLICATION NUMBER: 60/030,590
; EARLIER FILING DATE: 1996-11-14
; EARLIER APPLICATION NUMBER: 08/800,929
; EARLIER FILING DATE: 1997-02-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-212-971-8

Query Match 7.6%; Score 138.5; DB 3; Length 618;
Best Local Similarity 21.5%; Pred. No. 6.4e-06;
Matches 67; Conservative 50; Mismatches 119; Indels 75; Gaps 13;

QY 82 QFVENCKVQIQLTLOEHKMWNRTHLWDCSKLIHQRTNTVPFLVPHEDGVDVAVRV 141
Db 343 EFVDEIQGRYPHLL--EQLLSTDTTTEENADPPIIH-----FGPGESESDAVMM 391
QY 142 LKPL--DSVDLGL-----ETVVEKHPHSIQSF---TDVIGHYISGERPKGIOE---TE 186
Db 392 NTPVKSALFMGNRDLVKQTVLSKLTGTGENTYKTVNDIVSALLNAEDEKREKEKQAE 451
QY 187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQGMQYVLSQD--FD 227
Db 452 EMASDDLRLKRNRMALFQQLTCVLPILDNLKANVINKQEHDIIRKQTIPLQARELID 511
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QY 282 HEAQLLSRAKPEDRESLSKACVCLSSFKSCVLECGHVCSCTECYRALPEPKKCPICRQ 341
Db 569 -----RTCKVCMDEKSVVFPICGHLVVQCEC---APSLRKCPCICRG 607
QY 342 AITRVIPLVNS 352
Db 608 IIKGTVRTFLS 618

RESULT 14
US-08-800-929A-8
; Sequence 8, Application US/08800929A
; Patent No. 6133437
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tsang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF
; TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/800,929A

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; FILING DATE: 13-FEB-1997  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/030,590  
; FILING DATE: 14-NOV-1996  
; APPLICATION NUMBER: 60/017,354  
; FILING DATE: 26-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bieker-Brady, Kristina  
; REGISTRATION NUMBER:  
; REFERENCE/DOCKET NUMBER: 07891/009001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-428-0200  
; TELEFAX: 617-428-7045  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 618 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-800-929A-8

Query Match 7.6%; Score 138.5; DB 3; Length 618;  
Best Local Similarity 21.5%; Pred. No. 6.4e-06;  
Matches 67; Conservative 50; Mismatches 119; Indels 75; Gaps 13;  
  
QY 82 QFVNCCKGVIOQLTQEHKMWNRTHLWDCSKIIHQTNTVPFDLVPHEDGVDVAVRV 141  
Db 343 EFVDEIQGRYPHLL--EQLLSTDTTGENADPPIH-----FGGESSSDAVMM 391  
QY 142 LKPL--DSVDLGL-----ETVYKFPHSIQSF---TDVIGHVISGERPKGIOE---TE 186  
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QY 282 HEAQLLSRAKPEDRESLSKACVVCCLSSFKSCVFLGCHVCSCTECYRALPEPKKCPICRQ 341  
Db 569 -----RTCKVCMDEKVSVVVFPCGHLVVCQEC---APSLRKCPICRG 607  
QY 342 AITRVIPLVNS 352  
Db 608 IIKGTVRTFLS 618

RESULT 15  
US-09-617-053A-8  
; Sequence 8, Application US/09617053A  
; Patent No. 6300492  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; FILE REFERENCE: 07891/009003  
; CURRENT FILING DATE: 2000-07-14  
; PRIOR APPLICATION NUMBER: US 08/800,929  
; PRIOR FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-617-053A-8  
  
Query Match 7.6%; Score 138.5; DB 3; Length 618;  
Best Local Similarity 21.5%; Pred. No. 6.4e-06;  
Matches 67; Conservative 50; Mismatches 119; Indels 75; Gaps 13;  
  
QY 82 QFVNCCKGVIOQLTQEHKMWNRTHLWDCSKIIHQTNTVPFDLVPHEDGVDVAVRV 141  
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Db 392 NTPVVKSALEMGFNRLVKQTVLSKILTTGENYKTVNDIVSALLNAEDKREEEKQAE 451  
QY 187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQGMYYLSSQD-FD 227  
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QY 228 SLLQRESSVRLWKVLALVFGFATCATLFFILRKQYLRQE-----RLRLKQMOEEFQE 281  
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Job time : 45 secs





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: June 1, 2005, 23:34:05 ; Search time 141 Seconds  
(without alignments)  
862.974 Million cell updates/sec

Title: US-09-978-360A-437  
Perfect score: 1831  
Sequence: 1 MESGRPSLCFILGTTVS.....PKKPCICRAITRVIPLYS 352

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1465611 seqs, 345679903 residues

Total number of hits satisfying chosen parameters: 1465611

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	1831	100.0	352	11 US-09-978-360A-437	Sequence 437, App
2	1831	100.0	352	14 US-10-024-298A-75	Sequence 75, Appl
3	1831	100.0	352	14 US-10-042-211A-75	Sequence 75, Appl
4	1831	100.0	352	15 US-10-315-664-105	Sequence 105, App
5	1831	100.0	352	15 US-10-221-625-25	Sequence 25, Appl
6	1831	100.0	352	15 US-10-169-395-92	Sequence 92, Appl
7	1831	100.0	352	15 US-10-617-217A-75	Sequence 75, Appl
8	1826	99.7	392	9 US-09-764-864-801	Sequence 801, App
9	1824	99.6	352	14 US-10-024-298A-73	Sequence 73, Appl
10	1824	99.6	352	14 US-10-042-211A-73	Sequence 73, Appl
11	1824	99.6	352	15 US-10-617-217A-73	Sequence 73, Appl
12	901	49.2	174	9 US-09-764-864-1262	Sequence 1262, Ap
13	854	46.6	165	15 US-10-264-237-2680	Sequence 2680, Ap

14	295	16.1	339	15	US-10-424-599-158556	Sequence 158556,
15	231	12.6	232	15	US-10-425-114-47706	Sequence 47706, A
16	214	11.7	358	15	US-10-424-599-224671	Sequence 224671,
17	213	11.6	310	16	US-10-437-963-111394	Sequence 111394,
18	195.5	10.7	378	16	US-10-437-963-138606	Sequence 138606,
19	188.5	10.3	332	14	US-10-195-144-83	Sequence 83, Appl
20	188.5	10.3	332	15	US-10-345-072-83	Sequence 83, Appl
21	184.5	10.1	163	15	US-10-425-114-65305	Sequence 65305, A
22	183	10.0	236	15	US-10-425-114-38446	Sequence 38446, A
23	163	8.9	257	9	US-09-949-842-14	Sequence 14, Appl
24	163	8.9	403	13	US-10-087-192-114	Sequence 114, App
25	155.5	8.5	303	15	US-10-094-749-2475	Sequence 2475, Ap
26	155.5	8.5	696	15	US-10-094-749-2425	Sequence 2425, Ap
27	155.5	8.5	723	15	US-10-104-047-2572	Sequence 2572, Ap
28	148.5	8.1	272	15	US-10-108-260A-4608	Sequence 4608, Ap
29	145.5	7.9	336	15	US-10-451-168-99	Sequence 89, Appl
30	144.5	7.9	438	8	US-08-464-588-2	Sequence 2, Appl
31	144.5	7.9	438	14	US-10-323-643-2	Sequence 2, Appl
32	144.5	7.9	618	14	US-10-153-668-338	Sequence 338, App
33	144.5	7.9	618	14	US-10-207-655-200	Sequence 200, App
34	144.5	7.9	618	14	US-10-232-286-2	Sequence 2, Appl
35	144.5	7.9	618	15	US-10-366-307-4	Sequence 4, Appl
36	144.5	7.9	618	15	US-10-361-270-3	Sequence 3, Appl
37	144.5	7.9	618	15	US-10-260-708-63	Sequence 63, Appl
38	144.5	7.9	618	16	US-10-730-476A-78	Sequence 78, Appl
39	144.5	7.9	618	17	US-10-934-717-2	Sequence 2, Appl
40	144	7.9	125	15	US-10-425-114-63577	Sequence 63577, A
41	143.5	7.8	356	15	US-10-451-168-90	Sequence 90, Appl
42	143.5	7.8	363	15	US-10-104-047-3425	Sequence 3425, Ap
43	143.5	7.8	363	16	US-10-479-435-17	Sequence 17, Appl
44	143	7.8	127	15	US-10-343-917-2	Sequence 2, Appl
45	141	7.7	150	15	US-10-424-599-242296	Sequence 242296,

## ALIGNMENTS

RESULT 1  
US-09-978-360A-437  
; Sequence 437, Application US/09978360A  
; Publication No. US20040110939A1  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne  
; APPLICANT: Duclert, Aymeric  
; APPLICANT: Bouqueleret, Lydie  
; APPLICANT: Jobert, Severin  
; APPLICANT: Clusel, Catherine  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides  
; FILE REFERENCE: 56.USA.CIP  
; CURRENT APPLICATION NUMBER: US/09/978,360A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: US 60/066,677  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: US 60/069,957  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: US 60/074,121  
; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: US 60/081,563  
; PRIOR FILING DATE: 1998-04-13  
; PRIOR APPLICATION NUMBER: US 60/096,116  
; PRIOR FILING DATE: 1998-08-10  
; PRIOR APPLICATION NUMBER: US 60/099,273  
; PRIOR FILING DATE: -09-04  
; PRIOR APPLICATION NUMBER: US 09/191,997  
; PRIOR FILING DATE: 1998-11-13  
; PRIOR APPLICATION NUMBER: US 09/215,435  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: PCT/IB98/02122  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: US 09/247,155  
; PRIOR FILING DATE: 1999-02-09  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 810

; SOFTWARE: Patent.pm  
; SEQ ID NO 437  
; LENGTH: 352  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -23..-1  
US-09-978-360A-437

Query Match 100.0%; Score 1831; DB 11; Length 352;  
Best Local Similarity 100.0%; Pred. No. 8.4e-163;  
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHOR 120  
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## RESULT 2

US-10-024-298A-75  
; Sequence 75, Application US/10024298A  
; Publication No. US20030143540A1  
; GENERAL INFORMATION:  
; APPLICANT: ASAH KASEI KABUSHIKI KAISHA  
; APPLICANT: AKIO MATSUDA  
; APPLICANT: Geichi HONDA  
; APPLICANT: Shuji MURAMATSU  
; APPLICANT: Yukiko NAGANO  
; TITLE OF INVENTION: NF-K B Activating Gene  
; FILE REFERENCE: 1254-0191P  
; CURRENT APPLICATION NUMBER: US/10/024,298A  
; PRIOR FILING DATE: 2003-04-08  
; PRIOR APPLICATION NUMBER: 60/314,385  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/278,641  
; PRIOR FILING DATE: 2001-03-26  
; PRIOR APPLICATION NUMBER: 60/258,315  
; PRIOR FILING DATE: 2000-12-28  
; PRIOR APPLICATION NUMBER: JP254018/2001  
; PRIOR FILING DATE: 2001-03-26  
; PRIOR APPLICATION NUMBER: JP402288/2000  
; PRIOR FILING DATE: 2000-12-28  
; NUMBER OF SEQ ID NOS: 182  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 75  
; LENGTH: 352  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-024-298A-75

Query Match 100.0%; Score 1831; DB 14; Length 352;  
Best Local Similarity 100.0%; Pred. No. 8.4e-163;  
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
DB 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHOR 120  
DB 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHOR 120  
QY 121 TMTVPFDLVPHEDGVAVRVLKPLDSVDLGLTVEYKFKHPSIQSFTDVIHGYISGERPK 180  
DB 121 TMTVPFDLVPHEDGVAVRVLKPLDSVDLGLTVEYKFKHPSIQSFTDVIHGYISGERPK 180  
QY 181 GIQETEMLVKVGATLTGVLGELVLDNNSVRLQPPKQGMQYLLSSQDFSLLRQESSVRLW 240  
DB 181 GIQETEMLVKVGATLTGVLGELVLDNNSVRLQPPKQGMQYLLSSQDFSLLRQESSVRLW 240  
QY 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQMOEFQEHQAQLLSRAKPEDRESLKS 300  
DB 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQMOEFQEHQAQLLSRAKPEDRESLKS 300  
QY 301 ACVCLSSFKSCVFLGCHVCSCTECYRALPEPKKCPICRQAITRVIPLNS 352  
DB 301 ACVCLSSFKSCVFLGCHVCSCTECYRALPEPKKCPICRQAITRVIPLNS 352

## RESULT 3

US-10-042-211A-75  
; Sequence 75, Application US/10042211A  
; Publication No. US20030170719A1  
; GENERAL INFORMATION:  
; APPLICANT: MATSUDA, Akio et al.  
; TITLE OF INVENTION: NFkB Activating Gene  
; FILE REFERENCE: 1254-0192P  
; CURRENT APPLICATION NUMBER: US/10/042,211A  
; CURRENT FILING DATE: 2002-01-11  
; PRIOR APPLICATION NUMBER: JP 2000-402288  
; PRIOR FILING DATE: 2000-12-28  
; PRIOR APPLICATION NUMBER: JP 2001-088912  
; PRIOR FILING DATE: 2001-03-26  
; PRIOR APPLICATION NUMBER: JP 2001-254018  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: US 60/258,315  
; PRIOR FILING DATE: 2000-12-28  
; PRIOR APPLICATION NUMBER: US 60/278,640  
; PRIOR FILING DATE: 2001-03-26  
; PRIOR APPLICATION NUMBER: US 60/314,385  
; PRIOR FILING DATE: 2001-08-24  
; NUMBER OF SEQ ID NOS: 182  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 75  
; LENGTH: 352  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-042-211A-75

Query Match 100.0%; Score 1831; DB 14; Length 352;  
Best Local Similarity 100.0%; Pred. No. 8.4e-163;  
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
DB 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHOR 120  
DB 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHOR 120  
QY 121 TMTVPFDLVPHEDGVAVRVLKPLDSVDLGLTVEYKFKHPSIQSFTDVIHGYISGERPK 180

Db 121 TMTVPDLVPHEDGVDVAVRVLKPLDSVDLGLTETVYKFPHPISQFTDVIHGIISGERPK 180  
QY 181 GIQTEEMLKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSQDFDLSLLQRESSVRLW 240  
Db 181 GIQTEEMLKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSQDFDLSLLQRESSVRLW 240  
QY 241 KVALVFGFATCATLFFILRKQYLQRLKQOEFEQHEAQLLSRAKPEDRESLSK 300  
Db 241 KVALVFGFATCATLFFILRKQYLQRLKQOEFEQHEAQLLSRAKPEDRESLSK 300  
QY 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352  
Db 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352  
  
RESULT 4  
US-10-315-664-105  
; Sequence 105, Application US/10315664  
; Publication No. US2003020377A1  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Bougueleret, L.  
; APPLICANT: Jobert, S.  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal  
; FILE REFERENCE: Peptides  
; CURRENT APPLICATION NUMBER: US/10/315,664  
; CURRENT FILING DATE: 2002-12-09  
; PRIOR APPLICATION NUMBER: US/09/599,360  
; PRIOR FILING DATE: 2000-06-21  
; PRIOR APPLICATION NUMBER: 60/113,686  
; PRIOR FILING DATE: 1998-12-22  
; PRIOR APPLICATION NUMBER: 60/141,032  
; PRIOR FILING DATE: 1999-06-25  
; PRIOR APPLICATION NUMBER: 09/469,099  
; PRIOR FILING DATE: 1999-12-21  
; NUMBER OF SEQ ID NOS: 123  
; SOFTWARE: Patent.pm  
; SEQ ID NO 105  
; LENGTH: 352  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; NAME/KEY: SIGNAL  
; LOCATION: -23...-1  
US-10-315-664-105  
  
Query Match 100.0%; Score 1831; DB 15; Length 352;  
Best Local Similarity 100.0%; Pred. No. 8.4e-163;  
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MESGGRPSLCQFILLGTTSVVTAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
Db 1 MESGGRPSLCQFILLGTTSVVTAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
  
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKVMWNTTLLWDCSKIIHOR 120  
Db 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKVMWNTTLLWDCSKIIHOR 120  
  
QY 121 TMTVPDLVPHEDGVDVAVRVLKPLDSVDLGLTETVYKFPHPISQFTDVIHGIISGERPK 180  
Db 121 TMTVPDLVPHEDGVDVAVRVLKPLDSVDLGLTETVYKFPHPISQFTDVIHGIISGERPK 180  
  
QY 181 GIQTEEMLKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSQDFDLSLLQRESSVRLW 240  
Db 181 GIQTEEMLKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSQDFDLSLLQRESSVRLW 240  
  
QY 241 KVALVFGFATCATLFFILRKQYLQRLKQOEFEQHEAQLLSRAKPEDRESLSK 300  
Db 241 KVALVFGFATCATLFFILRKQYLQRLKQOEFEQHEAQLLSRAKPEDRESLSK 300  
  
QY 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352  
Db 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352

Db 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352  
  
RESULT 5  
US-10-221-625-25  
; Sequence 25, Application US/10221625  
; Publication No. US20040033942A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: HILLMAN, Jennifer L.  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: YUE, Henry  
; APPLICANT: LAL, Preeti  
; APPLICANT: LU, Dyung Aina M.  
; APPLICANT: PATTERSON, Chandra  
; APPLICANT: BANDMAN, Olga  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: MATHUR, Preeti  
; APPLICANT: SHAH, Purvi  
; APPLICANT: AU-YOUNG, Janice  
; APPLICANT: REDDY, Roopa  
; TITLE OF INVENTION: TRANSCRIPTION FACTORS  
; FILE REFERENCE: PF-0761 PCT  
; CURRENT APPLICATION NUMBER: US/10/221,625  
; CURRENT FILING DATE: 2001-03-13  
; NUMBER OF SEQ ID NOS: 214  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 352  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040033942A1 1383473CD1  
US-10-221-625-25  
  
Query Match 100.0%; Score 1831; DB 15; Length 352;  
Best Local Similarity 100.0%; Pred. No. 8.4e-163;  
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MESGGRPSLCQFILLGTTSVVTAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
Db 1 MESGGRPSLCQFILLGTTSVVTAALYSVYRQKARVSQELKGAKKVLHGDLKSLSEAPG 60  
  
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKVMWNTTLLWDCSKIIHOR 120  
Db 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKVMWNTTLLWDCSKIIHOR 120  
  
QY 121 TMTVPDLVPHEDGVDVAVRVLKPLDSVDLGLTETVYKFPHPISQFTDVIHGIISGERPK 180  
Db 121 TMTVPDLVPHEDGVDVAVRVLKPLDSVDLGLTETVYKFPHPISQFTDVIHGIISGERPK 180  
  
QY 181 GIQTEEMLKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSQDFDLSLLQRESSVRLW 240  
Db 181 GIQTEEMLKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSQDFDLSLLQRESSVRLW 240  
  
QY 241 KVALVFGFATCATLFFILRKQYLQRLKQOEFEQHEAQLLSRAKPEDRESLSK 300  
Db 241 KVALVFGFATCATLFFILRKQYLQRLKQOEFEQHEAQLLSRAKPEDRESLSK 300  
  
QY 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352  
Db 301 ACVCLSSFKSCVFLGCHVCSCTCYRALPEPKKPCICROAITRVIPLYS 352  
  
RESULT 6  
US-10-169-395-92  
; Sequence 92, Application US/10169395  
; Publication No. US20040034192A1  
; GENERAL INFORMATION:  
; APPLICANT: KATO, Seishi  
; APPLICANT: KIMURA, Tomoko

```
; TITLE OF INVENTION: HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAB ENCODING
; TITLE OF INVENTION: THESE PROTEINS
; FILE REFERENCE: 01997.015100.US
; CURRENT APPLICATION NUMBER: US/10/169,395
; CURRENT FILING DATE: 2002-11-29
; PRIOR APPLICATION NUMBER: JP 2000-585
; PRIOR FILING DATE: 2000-01-06
; PRIOR APPLICATION NUMBER: JP 2000-588
; PRIOR FILING DATE: 2000-01-06
; PRIOR APPLICATION NUMBER: JP 2000-2299
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: JP 2000-26862
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: JP 2000-58367
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: PCT/JP00/09359
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 150
; SEQ ID NO 92
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-169-395-92

Query Match      100.0%; Score 1831; DB 15; Length 352;
Best Local Similarity 100.0%; Pred. No. 8.4e-163;
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELGAKKXVHLGEDLKSLSEAPG 60
DB 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELGAKKXVHLGEDLKSLSEAPG 60
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHQ 120
DB 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHQ 120
QY 121 TNTVPFDLPHEGVDVAVRVLKPLDSVDLGLTETVYKEFHPISQSFDTDVIGHYISGERPK 180
DB 121 TNTVPFDLPHEGVDVAVRVLKPLDSVDLGLTETVYKEFHPISQSFDTDVIGHYISGERPK 180
QY 181 GIQETEMLKVGATLFGVGLVDLNNNSVRLQPPKQGMQYLLSSQDFDLSLLQROESSVRLW 240
DB 181 GIQETEMLKVGATLFGVGLVDLNNNSVRLQPPKQGMQYLLSSQDFDLSLLQROESSVRLW 240
QY 241 KVLALVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKS 300
DB 241 KVLALVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKS 300
QY 301 ACVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352
DB 301 ACVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352

RESULT 7
US-10-617-217A-75
; Sequence 75, Application US/10617217A
; Publication No. US20040081986A1
; GENERAL INFORMATION:
; APPLICANT: MATSUDA, Akio et al.
; TITLE OF INVENTION: NF-KB ACTIVATING GENE
; FILE REFERENCE: 1254-0229P
; CURRENT APPLICATION NUMBER: US/10/617,217A
; CURRENT FILING DATE: 2003-07-11
; PRIOR APPLICATION NUMBER: JP 2000-402288
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: JP 2001-088912
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: JP 2001-254018
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/258,315
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/278,640
; PRIOR FILING DATE: 2001-03-26
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; PRIOR APPLICATION NUMBER: US 60/314,385
; PRIOR FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-617-217A-75

Query Match      100.0%; Score 1831; DB 15; Length 352;
Best Local Similarity 100.0%; Pred. No. 8.4e-163;
Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELGAKKXVHLGEDLKSLSEAPG 60
DB 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELGAKKXVHLGEDLKSLSEAPG 60
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHQ 120
DB 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHQ 120
QY 121 TNTVPFDLPHEGVDVAVRVLKPLDSVDLGLTETVYKEFHPISQSFDTDVIGHYISGERPK 180
DB 121 TNTVPFDLPHEGVDVAVRVLKPLDSVDLGLTETVYKEFHPISQSFDTDVIGHYISGERPK 180
QY 181 GIQETEMLKVGATLFGVGLVDLNNNSVRLQPPKQGMQYLLSSQDFDLSLLQROESSVRLW 240
DB 181 GIQETEMLKVGATLFGVGLVDLNNNSVRLQPPKQGMQYLLSSQDFDLSLLQROESSVRLW 240
QY 241 KVLALVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKS 300
DB 241 KVLALVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKS 300
QY 301 ACVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352
DB 301 ACVCLSSFKSCVFLGCHVCSCTECYRALPEPKKPCICRQAITRVIPLNS 352

RESULT 8
US-09-764-864-801
; Sequence 801, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 801
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (238)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-864-801

Query Match      99.7%; Score 1826; DB 9; Length 392;
Best Local Similarity 99.7%; Pred. No. 2.9e-162;
Matches 351; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELGAKKXVHLGEDLKSLSEAPG 60
DB 41 MESGGRPSLCQFILLGTTTSVVTAAALYSVYRQKARVSQELGAKKXVHLGEDLKSLSEAPG 100
QY 61 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHQ 120
DB 101 KCPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKQVWNRTHLWDCSKIIHQ 160
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QY 121 TTTVPDLVPHEDGVDVAVRLKPLDSVDLGLTETVYKFPHPISQSFDTDVIGHYISGERPK 180  
 Db 161 TTTVPDLVPHEDGVDVAVRLKPLDSVDLGLTETVYKFPHPISQSFDTDVIGHYISGERPK 220  
 QY 181 GIQTEEMLVKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSSQDFDLSLLQRESSVRLW 240  
 Db 221 GIQTEEMLVKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSSQDFDLSLLQRESSVRLW 280  
 QY 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 300  
 Db 281 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 340  
 QY 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 352  
 Db 341 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 392

RESULT 9

US-10-024-298A-73  
 ; Sequence 73, Application US/10024298A  
 ; Publication No. US20030143540A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ASAHI KASEI KABUSHIKI KAISHA  
 ; APPLICANT: AKIO MATSUDA  
 ; APPLICANT: Goichi HONDA  
 ; APPLICANT: Shuji MURAMATSU  
 ; APPLICANT: Yukiko NAGANO  
 ; TITLE OF INVENTION: NF-K B Activating Gene  
 ; FILE REFERENCE: 1254-0191P  
 ; CURRENT APPLICATION NUMBER: US/10/024,298A  
 ; CURRENT FILING DATE: 2003-04-08  
 ; PRIOR APPLICATION NUMBER: 60/314,385  
 ; PRIOR FILING DATE: 2001-08-24  
 ; PRIOR APPLICATION NUMBER: 60/278,641  
 ; PRIOR FILING DATE: 2001-03-26  
 ; PRIOR APPLICATION NUMBER: 60/258,315  
 ; PRIOR FILING DATE: 2000-12-28  
 ; PRIOR APPLICATION NUMBER: JP254018/2001  
 ; PRIOR FILING DATE: 2001-08-24  
 ; PRIOR APPLICATION NUMBER: JP0088912/2001  
 ; PRIOR FILING DATE: 2001-03-26  
 ; PRIOR APPLICATION NUMBER: JP402288/2000  
 ; PRIOR FILING DATE: 2000-12-28  
 ; NUMBER OF SEQ ID NOS: 182  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 73  
 ; LENGTH: 352  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-024-298A-73

Query Match 99.6%; Score 1824; DB 14; Length 352;  
 Best Local Similarity 99.7%; Pred. No. 3.8e-162;  
 Matches 351; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MESGRPSLCQFILLGTTTSVTAALYSVYRQKARVQSELKGAKVHLGEDLSKILSEAPG 60  
 Db 1 MESGRPSLCQFILLGTTTSVTAALYSVYRQKARVQSELKGAKVHLGEDLSKILSEAPG 60  
 QY 61 KCVPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKMWNRTHLWDCSKI IHQR 120  
 Db 61 KCVPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKMWNRTHLWDCSKI IHQR 120  
 QY 121 TTTVPDLVPHEDGVDVAVRLKPLDSVDLGLTETVYKFPHPISQSFDTDVIGHYISGERPK 180  
 Db 121 TTTVPDLVPHEDGVDVAVRLKPLDSVDLGLTETVYKFPHPISQSFDTDVIGHYISGERPK 180  
 QY 181 GIQTEEMLVKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSSQDFDLSLLQRESSVRLW 240  
 Db 181 GIQTEEMLVKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSSQDFDLSLLQRESSVRLW 240  
 QY 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 300  
 Db 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 300  
 QY 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 352  
 Db 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 392

Db 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 300  
 QY 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 352  
 Db 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 352

RESULT 10

US-10-042-211A-73  
 ; Sequence 73, Application US/10042211A  
 ; Publication No. US20030170719A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: MATSUDA, AKIO et al.  
 ; TITLE OF INVENTION: NFkB Activating Gene  
 ; FILE REFERENCE: 1254-0192P  
 ; CURRENT APPLICATION NUMBER: US/10/042,211A  
 ; CURRENT FILING DATE: 2002-01-11  
 ; PRIOR APPLICATION NUMBER: JP 2000-402288  
 ; PRIOR FILING DATE: 2000-12-28  
 ; PRIOR APPLICATION NUMBER: JP 2001-088912  
 ; PRIOR FILING DATE: 2001-03-26  
 ; PRIOR APPLICATION NUMBER: JP 2001-254018  
 ; PRIOR FILING DATE: 2001-08-24  
 ; PRIOR APPLICATION NUMBER: US 60/258,315  
 ; PRIOR FILING DATE: 2000-12-28  
 ; PRIOR APPLICATION NUMBER: US 60/278,640  
 ; PRIOR FILING DATE: 2001-03-26  
 ; PRIOR APPLICATION NUMBER: US 60/314,385  
 ; PRIOR FILING DATE: 2001-08-24  
 ; NUMBER OF SEQ ID NOS: 182  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 73  
 ; LENGTH: 352  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-042-211A-73

Query Match 99.6%; Score 1824; DB 14; Length 352;  
 Best Local Similarity 99.7%; Pred. No. 3.8e-162;  
 Matches 351; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MESGRPSLCQFILLGTTTSVTAALYSVYRQKARVQSELKGAKVHLGEDLSKILSEAPG 60  
 Db 1 MESGRPSLCQFILLGTTTSVTAALYSVYRQKARVQSELKGAKVHLGEDLSKILSEAPG 60  
 QY 61 KCVPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKMWNRTHLWDCSKI IHQR 120  
 Db 61 KCVPYAVIEGAVRSVKETLNSQFVENCCKGVIQRLTLQEHKMWNRTHLWDCSKI IHQR 120  
 QY 121 TTTVPDLVPHEDGVDVAVRLKPLDSVDLGLTETVYKFPHPISQSFDTDVIGHYISGERPK 180  
 Db 121 TTTVPDLVPHEDGVDVAVRLKPLDSVDLGLTETVYKFPHPISQSFDTDVIGHYISGERPK 180  
 QY 181 GIQTEEMLVKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSSQDFDLSLLQRESSVRLW 240  
 Db 181 GIQTEEMLVKVGATLTGVELVLDNNSVRLQPPKQGMQYLLSSQDFDLSLLQRESSVRLW 240  
 QY 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 300  
 Db 241 KVALVFGFATCATLFFILRKQYLQORERLRLKQOEFEQHEAQLLSRAKPEDRESLSKS 300  
 QY 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 352  
 Db 301 ACVCLSSFKSCVFLGCHGVCSCTCYRALPEPKKPCICROAITRVIPLVNS 352

RESULT 11

US-10-617-217A-73  
 ; Sequence 73, Application US/10617217A  
 ; Publication No. US20040081986A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: MATSUDA, AKIO et al.

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;
; TITLE OF INVENTION: NF-KB ACTIVATING GENE
; FILE REFERENCE: 1254-0229P
; CURRENT APPLICATION NUMBER: US/10/617,217A
; CURRENT FILING DATE: 2003-07-11
; PRIOR APPLICATION NUMBER: JP 2000-402288
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: JP 2001-088912
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: JP 2001-254018
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/258,315
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/278,640
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: US 60/314,385
; PRIOR FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 73
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-617-217A-73

Query Match          99.6%; Score 1824; DB 15; Length 352;
Best Local Similarity 99.7%; Pred. No. 3.8e-162;
Matches 351; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MESSGRPSLCQFILLGTTTSVVTAAALSVYRQKARVSQELKGAKKVHLGEDLKSILSEAPG 60
   |||||
Db 1 MESSGRPSLCQFILLGTTTSVVTAAALSVYRQKARVSQELKGAKKVHLGEDLKSILSEAPG 60
   |||||

QY 61 KCPYAVIEGAVRSKTELNSQFVENCCKGVIQBLTLQEHKQVWNRTHLWDCSKIHQ 120
   |||||
Db 61 KCPYAVIEGAVRSKTELNSQFVENCCKGVIQBLTLQEHKQVWNRTHLWDCSKIHQ 120
   |||||

QY 121 TINTVPDLVPHEDGVAVRVLPLDSVDLGLTVEYKHPSTQSFDTVIGHYISGERPK 180
   |||||
Db 121 TINTVPDLVPHEDGVAVRVLPLDSVDLGLTVEYKHPSTQSFDTVIGHYISGERPK 180
   |||||

QY 181 GIQETEMLVKGATLTGVLGELVDNNSVRLQPPKQGMYYLSSQDFDSLQROESSVRLW 240
   |||||
Db 181 GIQETEMLVKGATLTGVLGELVDNNSVRLQPPKQGMYYLSSQDFDSLQROESSVRLW 240
   |||||

QY 241 KVALVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKS 300
   |||||
Db 241 KVALVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKS 300
   |||||

QY 301 ACVVCLSSPKSCVFLECGHVCSTECYRALPEPKKPCICRQAITRVIPLVNS 352
   |||||
Db 301 ACVVCLSSPKSCVFLECGHVCSTECYRALPEPKKPCICRQAITRVIPLVNS 352
   |||||

RESULT 12
US-09-764-864-1262
; Sequence 1262, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1262
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (117)
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;
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-764-864-1262

Query Match          49.2%; Score 901; DB 9; Length 174;
Best Local Similarity 99.4%; Pred. No. 4.7e-76;
Matches 173; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 179 PKGIQETEMLVKGATLTGVLGELVDNNSVRLQPPKQGMYYLSSQDFDSLQROESSV 238
   |||||
Db 1 PKGIQETEMLVKGATLTGVLGELVDNNSVRLQPPKQGMYYLSSQDFDSLQROESSV 60
   |||||

QY 239 LMKVLAIVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESL 298
   |||||
Db 61 LMKVLAIVFGFATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESL 120
   |||||

QY 299 KSACVVCLSSPKSCVFLECGHVCSTECYRALPEPKKPCICRQAITRVIPLVNS 352
   |||||
Db 121 KSACVVCLSSPKSCVFLECGHVCSTECYRALPEPKKPCICRQAITRVIPLVNS 174
   |||||

RESULT 13
US-10-264-237-2680
; Sequence 2680, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131PI
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2680
; LENGTH: 165
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (108)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-2680

Query Match          46.6%; Score 854; DB 15; Length 165;
Best Local Similarity 99.4%; Pred. No. 1.1e-71;
Matches 164; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 188 MLKVGAATLTGVLGELVDNNSVRLQPPKQGMYYLSSQDFDSLQROESSVRLWKVLALVF 247
   |||||
Db 1 MLKVGAATLTGVLGELVDNNSVRLQPPKQGMYYLSSQDFDSLQROESSVRLWKVLALVF 60
   |||||

QY 248 GPATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKSACVVCLS 307
   |||||
Db 61 GPATCATLFFILRKQYLQROERLRLKQMOEFOEHEAQLLSRAKPEDRESLKSACVVCLS 120
   |||||

QY 308 SPKSCVFLECGHVCSTECYRALPEPKKPCICRQAITRVIPLVNS 352
   |||||
Db 121 SPKSCVFLECGHVCSTECYRALPEPKKPCICRQAITRVIPLVNS 165
   |||||

RESULT 14
US-10-424-599-158556
; Sequence 158556, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
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COUNTRY: USA  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/511,485  
 FILING DATE: 04-AUG-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Clark, Paul T.  
 REGISTRATION NUMBER: 30,162  
 REFERENCE/DOCKET NUMBER: 07540/002001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 618 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: not relevant  
 TOPOLOGY: both  
 MOLECULE TYPE: protein  
 US-08-511-485-8

Query Match 7.6%; Score 138.5; DB 2; Length 618;  
 Best Local Similarity 21.5%; Pred. No. 6.4e-06;  
 Matches 67; Conservative 50; Mismatches 119; Indels 75; Gaps 13;  
 QY 82 QFVENCCKGVIRLTLOEHKMWNRTHLWDCSKIIHQTNTVPPDLVPHEDGVAVRV 141  
 DB 343 EFVDEIQGRYPHLL--EQLLSTSDTTGENADPPIH-----FGPSSSSSDAVNM 391  
 QY 142 LKPL--DSVDLGL-----ETVYKEPHPSIQSF---TDVIGHYISGRPKIQE-----TE 186  
 DB 392 NTPVVKSALEMGFNRDLVKQTVLSKILTTGENYKTVNDIVSALLNADEKREEKEKQAE 451  
 QY 187 EMLKVGATLTVGVEL-----VLDN-----NSVRLQPP---KQGMYYLSSQD-PD 227  
 DB 452 EWASDDLIRKNRMALFQQLTCVLPILDNLKANVINKQEHDIKQTKIPLQARELID 511  
 QY 228 SLRQESSVRLWKVLAVFGFATCATLFFILRKQYLQOE-----RLRKQOEFEQ 281  
 DB 512 TIWVGNAANAFKNCLEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEQLRLQEE--- 568  
 QY 282 HEAQLSRAPKPEDRESLKSACVCLSSPKSCVFLGCHVCSCTECYRALPEPKKPCICRQ 341  
 DB 569 -----RTCKVCMDEKVSVVFIPIGHLVVCQEC---APSLRKPCICRG 607  
 QY 342 AITRVIPLYS 352  
 DB 608 IIKGTVRTFLS 618

RESULT 13  
 US-09-212-971-8  
 Sequence 8, Application US/09212971B  
 Patent No. 6107041  
 GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G  
 APPLICANT: Mackenzie, Alexander E  
 APPLICANT: Liston, Peter  
 APPLICANT: Baird, Stephen  
 APPLICANT: Teang, Benjamin K  
 APPLICANT: Pratt, Christine  
 TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
 TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
 TITLE OF INVENTION: DISEASE  
 FILE REFERENCE: 07891/009002  
 CURRENT APPLICATION NUMBER: US/09/212,971B

CURRENT FILING DATE: 1998-12-16  
 EARLIER APPLICATION NUMBER: 60/017,354  
 EARLIER FILING DATE: 1996-04-26  
 EARLIER APPLICATION NUMBER: 60/030,590  
 EARLIER FILING DATE: 1996-11-14  
 EARLIER APPLICATION NUMBER: 08/800,929  
 EARLIER FILING DATE: 1997-02-13  
 NUMBER OF SEQ ID NOS: 17  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 8  
 LENGTH: 618  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-212-971-8

Query Match 7.6%; Score 138.5; DB 3; Length 618;  
 Best Local Similarity 21.5%; Pred. No. 6.4e-06;  
 Matches 67; Conservative 50; Mismatches 119; Indels 75; Gaps 13;  
 QY 82 QFVENCCKGVIRLTLOEHKMWNRTHLWDCSKIIHQTNTVPPDLVPHEDGVAVRV 141  
 DB 343 EFVDEIQGRYPHLL--EQLLSTSDTTGENADPPIH-----FGPSSSSSDAVNM 391  
 QY 142 LKPL--DSVDLGL-----ETVYKEPHPSIQSF---TDVIGHYISGRPKIQE-----TE 186  
 DB 392 NTPVVKSALEMGFNRDLVKQTVLSKILTTGENYKTVNDIVSALLNADEKREEKEKQAE 451  
 QY 187 EMLKVGATLTVGVEL-----VLDN-----NSVRLQPP---KQGMYYLSSQD-PD 227  
 DB 452 EWASDDLIRKNRMALFQQLTCVLPILDNLKANVINKQEHDIKQTKIPLQARELID 511  
 QY 228 SLRQESSVRLWKVLAVFGFATCATLFFILRKQYLQOE-----RLRKQOEFEQ 281  
 DB 512 TIWVGNAANAFKNCLEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEQLRLQEE--- 568  
 QY 282 HEAQLSRAPKPEDRESLKSACVCLSSPKSCVFLGCHVCSCTECYRALPEPKKPCICRQ 341  
 DB 569 -----RTCKVCMDEKVSVVFIPIGHLVVCQEC---APSLRKPCICRG 607  
 QY 342 AITRVIPLYS 352  
 DB 608 IIKGTVRTFLS 618

RESULT 14  
 US-08-800-929A-8  
 Sequence 8, Application US/08800929A  
 Patent No. 6133437  
 GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G  
 APPLICANT: Mackenzie, Alexander E  
 APPLICANT: Liston, Peter  
 APPLICANT: Baird, Stephen  
 APPLICANT: Teang, Benjamin K  
 APPLICANT: Pratt, Christine  
 TITLE OF INVENTION: DETECTION AND MODULATION OF  
 TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATI  
 TITLE OF INVENTION: DISEASE  
 NUMBER OF SEQUENCES: 17  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Clark & Elbing LLP  
 STREET: 176 Federal Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/800,929A

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SEQ ID NO 2  
LENGTH: 723  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-434-408-2

Best Local Similarity 31.5%; Pred. No. 2.3e-07;  
Matches 34; Conservative 18; Mismatches 34; Indels 22; Gaps 3;

264 LQERLRKQKQREFOEH-----EAQLLSRAK-----PEDRESLKSACVV 304  
311 LKDLGLTVKQLKLVMLHRVDYKGCCEKQELLDRVSLWKTWRECPAVEKLATDELCKI 370

Query Match 8.5%; Score 155.5; DB 4; Length 723;  
Best Local Similarity 34.3%; Pred. No. 1.1e-07;  
Matches 37; Conservative 16; Mismatches 38; Indels 17; Gaps 3;

259 LRQYQLOR-QERLRKQKQREFOEH-----QEHEAQLLSRAKPEDRESLKSACVV 304  
618 LQHEILRVQELLDAAKIQELKPEGMGEVTPAPQPPESVRPSAPPASLEVQASECVV 677

259 LQERLRKQKQREFOEH-----EAQLLSRAK-----PEDRESLKSACVV 304  
311 LKDLGLTVKQLKLVMLHRVDYKGCCEKQELLDRVSLWKTWRECPAVEKLATDELCKI 370

305 CLSFPKSCVFLKCHVSCCTCYRALPEPKKPCICRQAITRVIPLVNS 352  
371 CNDAPICVFLKCHVSCCTCYRALPEPKKPCICRQAITRVIPLVNS 415

259 LRQYQLOR-QERLRKQKQREFOEH-----QEHEAQLLSRAKPEDRESLKSACVV 304  
618 LQHEILRVQELLDAAKIQELKPEGMGEVTPAPQPPESVRPSAPPASLEVQASECVV 677

305 CLSFPKSCVFLKCHVSCCTCYRALPEPKKPCICRQAITRVIPLVNS 352  
678 CLREAOIFLNGCHVSCCTCYRALPEPKKPCICRQAITRVIPLVNS 722

RESULT 7  
PCT-US95-05922A-2  
Sequence 2, Application PC/TUS9505922A  
GENERAL INFORMATION:  
APPLICANT: HE, ET AL.  
TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/05922A  
FILING DATE: 11 MAY 1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: FERRARO, GREGORY D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-292  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 438 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
PCT-US95-05922A-2

US-09-270-767-58582  
Sequence 58582; Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 58582  
LENGTH: 350  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-58582

Query Match 7.9%; Score 144.5; DB 5; Length 438;  
Best Local Similarity 21.9%; Pred. No. 8e-07;  
Matches 68; Conservative 50; Mismatches 118; Indels 75; Gaps 13;

82 QFVNCGVIRLQEHKAVNFTLWDCSKIIHQTWTPDLPVHEDGVDAVRV 141  
163 EFVDEIQRYPHLL-EQLLSTDTGTEENADPLIHH-----FGFGSSSEDVAVM 211  
142 LKPL-DSVDLGL-----ETVYKHFPSIQSF---TDVIGHYISGERPKGIQE---TE 186  
212 NTPVKSALMGFNRDLVKQIVQSKILTTGENYKTVNDIVSALLNAEDKREKEKQAE 271  
187 EMLKVGATLTGVGEL-----VLDN-----NSVRLQPP---KQHQYTLSSQD-PD 227  
272 EMASDLSLRKRMALFQQLTCVLPILDNLKANVINKQEHDIKQTKQIPLOARELID 331  
228 SLLQRESSVRLMKVALVFGFATCATLFFILRKQYLQROE-----RLRLKQMOSEFQE 281

Query Match 8.2%; Score 151; DB 4; Length 350;  
Best Local Similarity 31.5%; Pred. No. 1.1e-07;  
Matches 34; Conservative 18; Mismatches 34; Indels 22; Gaps 3;

264 LQERLRKQKQREFOEH-----EAQLLSRAK-----PEDRESLKSACVV 304  
102 LKDLGLTVKQLKLVMLHRVDYKGCCEKQELLDRVSLWKTWRECPAVEKLATDELCKI 161

305 CLSFPKSCVFLKCHVSCCTCYRALPEPKKPCICRQAITRVIPLVNS 352  
162 CNDAPICVFLKCHVSCCTCYRALPEPKKPCICRQAITRVIPLVNS 415

US-09-270-767-43239  
Sequence 43239, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 43239  
LENGTH: 559  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-43239

Query Match 8.2%; Score 151; DB 4; Length 559;

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